

#2



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,001

DATE: 01/27/2002 TIME: 15:36:32

Input Set : D:\008010179CPUS01.txt

Output Set: N:\CRF3\01272002\J038001.raw

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ENTERED
      4 <110> APPLICANT: PALMER, Kenneth E.
              POGUE, Gregory P.
              McCORMICK, Alison
      8 <120> TITLE OF INVENTION: ROLLING CIRCLE REPLICON EXPRESSION
              VECTORS
     13 <130> FILE REFERENCE: 008010179CPUS01
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/038,001
C--> 16 <141> CURRENT FILING DATE: 2001-12-20
     18 <150> PRIOR APPLICATION NUMBER: 09/505,477
     19 <151> PRIOR FILING DATE: 2000-02-16
     21 <160> NUMBER OF SEQ ID NOS: 9
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     27 <212> TYPE: DNA
     28 <213> ORGANISM: Porcine circovirus
     30 <400> SEQUENCE: 1
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     32 acgacaggtt tcccgactgg aaagcgggca gtgagcgcaa cgcaattaat gtgagttagc
                                                                               120
     33 tcactcatta ggcaccccag gctttacact ttatgcttcc ggctcgtatg ttgtgtggaa
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     34 ttgtgagcgg ataacaattt cacacaggaa acagctatga ccatgattac gccaagctat
                                                                              240
    35 ttaggtgaca ctatagaata ctcaagctat gcatcaagct tggtaccgag ctcggatcca
                                                                              300
    36 ctagtaacgg ccgccagtgt gctggaattc gcccttattt aaatggagcc acagctggtt
                                                                              360
    37 tettttatta tttgggtgga accaateaat tgtttggtee ageteaggtt tgggggtgaa
                                                                              420
    38 gtacctggag tggtaggtaa agggctgcct tatggtgtgg cgggaggagt agttaatata
                                                                              480
    39 ggggtcatag gccaagttgg tggagggggt tacaaagttg gcatccaaga taacaacagt
                                                                              540
    40 ggacccaaca cetetttgat tagaggtgat ggggtetetg gggtaaaatt catatttage
                                                                              600
    41 ctttctaata cggtagtatt ggaaaggtag gggtaggggg ttggtgccgc ctgaggggg
                                                                              660
    42 gaggaactgg ccgatgttga atttgaggta gttaacattc caagatggct gcgagtatcc
                                                                              720
    43 teettttatg gtgagtaeaa attetgtaga aaggegggaa ttgaagatae eegtettteg
                                                                              780
    44 gcgccatctg taacggtttc tgaaggcggg gtgtgccaaa tatggtcttc tccggaggat
                                                                              840
    45 gtttccaaga tggctgcggg ggcgggtcct tcttctgcgg taacgcctcc ttggccacgt
                                                                              900
    46 catcctataa aagtgaaaga agtgcgctgc tgtagtatta ccaqcqcact tcqqcaqcqq
                                                                              960
    47 cagcaccteg gcagegteag tgaaaatgee aagcaagaaa ageggeeege aaceecataa
                                                                             1020
    48 gaggtgggtg ttcaccctta ataatccttc cgaggaggag aaaaacaaaa tacgggagct
                                                                             1080
    49 tocaatotoo otttttgatt attttgtttg oggagaggaa ggtttggaag agggtagaac
                                                                             1140
    50 tecteacete caggggtttg egaattttge taagaageag aettttaaea aggtgaagtg
                                                                             1200
    51 gtattttggt gcccgctgcc acatcgagaa agcgaaagga accgaccagc agaataaaga
                                                                             1260
    52 atactgcagt aaagaaggcc acatacttat cgagtgtgga gctccgcgga accaggggaa
                                                                             1320
    53 gcgcagcgac ctgtctactg ctgtgagtac ccttttggag acggggtctt tggtgactgt
                                                                             1380
    54 agccgagcag ttccctgtaa cgtatgtgag aaatttccgc gggctggctg aacttttgaa
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    55 agtgagcggg aagatgcagc agcgtgattg gaagacagct gtacacgtca tagtgggccc
                                                                             1500
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56 gcccggttgt gggaagagcc agtgggcccg taattttgct gagcctaggg acacctactg

1560

RAW SEQUENCE LISTING DATE: 01/27/2002 PATENT APPLICATION: US/10/038,001 TIME: 15:36:32

Input Set : $D:\008010179CPUS01.txt$

Output Set: N:\CRF3\01272002\J038001.raw

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| | | | | | gaagaagttg | | 1620 |
| | | | | | ctgtgtgacc | | 1680 |
| | | | | | cgcagtattt | | 1740 |
| | | | | | ccagctgtag | | 1800 |
| | | | | | gaacaatcca | | 1860 |
| | | | | | ttcccatata | | 1920 |
| | | | | | ttatttattt | | 1980 |
| | | | | | taccacataa | | 2040 |
| 65 | tggctgcatt | ttggagcgca | tagccgaggc | ctgtgtgctc | gacattggtg | tgggtattta | 2100 |
| 66 | aaaagggcga | attctgcaga | tatccatcac | actggcggcc | gctcgagcat | gcatctagag | 2160 |
| 67 | ggcccaattc | gccctatagt | gagtcgtatt | acaattcact | ggccgtcgtt | ttacaacgtc | 2220 |
| 68 | gtgactggga | aaaccctggc | gttacccaac | ttaatcgcct | tgcagcacat | cccctttcg | 2280 |
| | | | | | ttcccaacag | | 2340 |
| | | | | | gagccgttat | | 2400 |
| | | | | | gatggtgatc | | 2460 |
| | | | | | cccggtggtg | | 2520 |
| | | | | | gccggtctcc | | 2580 |
| | | | | | aaacgccatt | | 2640 |
| | | | | | gatcttcacc | | 2700 |
| | | | | | gatgaatgtc | | 2760 |
| | | | | | ggtagcttgc | | 2820 |
| | | | | | cgaaccggaa | | 2880 |
| | | | | | ctggatggct | | 2940 |
| | | | | | gacaggatga | | 3000 |
| | | | | | cgcttgggtg | | 3060 |
| | | | | | tgccgccgtg | | 3120 |
| | | | | | gtccggtgcc | | 3180 |
| | | | | | gggcgttcct | | 3240 |
| | | | | | attgggcgaa | | 3300 |
| | | | | | atccatcatg | | 3360 |
| | | | | | cgaccaccaa | | 3420 |
| | | | | | cgatcaggat | | - |
| | | | | | | | 3480 |
| | | | | | gctcaaggcg | | 3540 |
| 01 | acygcyayya | ttataaatta | acccatggcg | atgeetgett | gccgaatatc | atggtggaaa | 3600 |
| 91 | acggeegett | ciciggatte | accgaecgcg | geeggetggg | tgtggcggac | cgctatcagg | 3660 |
| 92 | acatageget | ggetaeeegt | gatattgetg | aagagettgg | cggcgaatgg | gctgaccgct | 3720 |
| | | | | | catcgccttc | | 3780 |
| | | | | | gatgcggtat | | 3840 |
| | | | | | tttcggggaa | | 3900 |
| | | | | | tatccgctca | | 3960 |
| 9/ | accetgataa | atgcttcaat | aatagcacgt | gaggagggcc | accatggcca | agttgaccag | 4020 |
| 98 | tgccgttccg | gtgctcaccg | cgcgcgacgt | cgccggagcg | gtcgagttct | ggaccgaccg | 4080 |
| 99 | gctcgggttc | tcccgggact | tcgtggagga | cgacttcgcc | ggtgtggtcc | gggacgacgt | 4140 |
| 100 | gaccctgttc | atcagcgcgg | tccaggacca | ggtggtgccg | gacaacaccc | tggcctgggt | 4200 |
| 101 | . gtgggtgcgc | ggcctggacg | agctgtacgo | cgagtggtcg | , gaggtcgtgt | ccacgaactt | 4260 |
| 102 | ccgggacgcc | tccgggccgg | ccatgaccga | gatcggcgag | cagccgtggg | ggcgggagtt | 4320 |
| 103 | gecetgege | gacccggccg | gcaactgcgt | gcacttcgtg | gccgaggagc | aggactgaca | 4380 |
| 104 | cgtgctaaaa | cttcattttt | aatttaaaag | gatctaggtg | aagatccttt | ttgataatct | 4440 |
| 105 | catgaccaaa | atcccttaac | gtgagttttc | gttccactga | gcgtcagacc | ccgtagaaaa | 4500 |

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Input Set : D:\008010179CPUS01.txt
Output Set: N:\CRF3\01272002\J038001.raw

| | 106 | gatcaaagga | tcttcttgag | atccttttt | tctgcgcgta | atctgctgct | tgcaaacaaa | 4560 |
|---|------|------------|--------------|-------------|------------|------------|------------|-------|
| | 107 | aaaaccaccg | r ctaccagcgg | tggtttgttt | gccggatcaa | gagctaccaa | ctctttttcc | 4620 |
| | 108 | gaaggtaact | ggcttcagca | gagcgcagat | accaaatact | gtccttctag | tgtagccgta | 4680 |
| | 109 | gttaggccac | cacttcaaga | actctgtagc | accgcctaca | tacctcgctc | tgctaatcct | 4740 |
| | 110 | gttaccagtg | gctgctgcca | gtggcgataa | gtcgtgtctt | accgggttgg | actcaagacg | 4800 |
| | 111 | atagttaccg | gataaggcgc | agcggtcggg | ctgaacgggg | ggttcgtgca | cacageceag | 4860 |
| | 112 | cttggagcga | acgacctaca | ccgaactgag | atacctacag | cgtgagctat | gagaaagcgc | 4920 |
| | | | | | | agcggcaggg | | 4980 |
| | 114 | agagcgcacg | agggagcttc | cagggggaaa | cgcctggtat | ctttatagtc | ctgtcgggtt | 5040 |
| | | | | | | tcaggggggc | | 5100 |
| | | | | | | ttttgctggc | | 5160 |
| | 117 | catgttcttt | cctgcgttat | cccctgattc | tgtggataac | cgtattaccg | cctttgagtg | 5220 |
| | 118 | agctgatacc | gctcgccgca | gccgaacgac | cgagcgcagc | gagtcagtga | gcgaggaagc | 5280 |
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| | 122 | <211> LENG | TH: 5650 | | | | | |
| | 123 | <212> TYPE | : DNA | | | | • | |
| | 124 | <213> ORGA | NISM: Porci | ne circovir | us | | | |
| | 126 | <400> SEQU | ENCE: 2 | • | | | | |
| | 1.27 | ggatcgatcc | ggctgtggaa | tgtgtgtcag | ttagggtgtg | gaaagtcccc | aggeteecea | 60 |
| | 128 | gcaggcagaa | gtatgcaaag | catgcatcaa | gcttggtacc | gagctcggat | ccactagtaa | 120 |
| | 129 | cggccgccag | tgtgctggaa | ttcgccctta | tttaaatgga | gccacagctg | gtttctttta | 180 |
| | 130 | ttatttgggt | ggaaccaatc | aattgtttgg | tccagctcag | gtttgggggt | gaagtacctg | 240 |
| | 131 | gagtggtagg | taaagggctg | ccttatggtg | tggcgggagg | agtagttaat | ataggggtca | 300 |
| : | 132 | taggccaagt | tggtggaggg | ggttacaaag | ttggcatcca | agataacaac | agtggaccca | 360 |
| | | | | | | attcatattt | | 420 |
| - | 134 | atacggtagt | attggaaagg | taggggtagg | gaattaatac | cgcctgaggg | ggggaggaac | 480 |
| | | | | | | gctgcgagta | | 540 |
| | | | | | | tacccgtctt | | 600 |
| - | L37 | ctgtaacggt | ttctgaaggc | ggggtgtgcc | aaatatqqtc | ttctccggag | gatgtttcca | 660 |
|] | L38 | agatggctgc | gggggcgggt | ccttcttctg | cqqtaacqcc | tccttggcca | cqtcatccta | 720 |
| 1 | L39 | taaaagtgaa | agaagtgcgc | tgctgtagta | ttaccagcgc | acttcggcag | cggcagcacc | 780 |
| 1 | L40 | tcggcagcgt | cagtgaaaat | qccaaqcaaq | aaaaqcqqcc | cgcaacccca | taagaggtgg | 840 |
| 1 | L41 | gtgttcaccc | ttaataatcc | ttccgaggag | qaqaaaaaca | aaatacggga | gcttccaatc | 900 |
| 1 | L42 | tccctttttg | attattttgt | ttgcggagag | gaaggtttgg | aagagggtag | aactcctcac | 960 |
| 1 | L43 | ctccaggggt | ttgcgaattt | tgctaagaag | cagactttta | acaaggtgaa | gtggtatttt | 1020 |
| 1 | 44 | ggtgcccgct | gccacatcga | gaaagcgaaa | qqaaccqacc | agcagaataa | agaatactgc | 1080 |
| 1 | 45 | agtaaagaag | gccacatact | tatcgagtgt | ggageteege | ggaaccaggg | gaagcgcagc | 1140 |
| 1 | 46 | gacctgtcta | ctgctgtgag | tacccttttg | qaqacqqqqt | ctttggtgac | tgtagccgag | 1200 |
| 1 | .47 | cagttccctg | taacgtatgt | gagaaatttc | cacaaactaa | ctgaactttt | gaaagtgagc | 1260. |
| 1 | 48 | gggaagatgc | agcagcgtga | ttqqaaqaca | gctgtacacg | tcatagtggg | cccacccaat | 1320 |
| 1 | .49 | tgtgggaaga | gccagtgggc | ccqtaatttt | gctgagccta | gggacaccta | ctggaagcct | 1380 |
| 1 | .50 | agtagaaata | agtggtggga | tggatatcat | ggagaagaag | ttgttgtttt | ggatgatttt | 1440 |
| 1 | .51 | tatggctggt | taccttggga | tgatctactg | agactatata | accggtatcc | attgactgta | 1500 |
| 1 | .52 | gagactaaag | ggggtactgt | tcctttttta | qcccqcaqta | ttttgattac | cagcaatcag | 1560 |
| 1 | .53 | gcccccagq | aatggtactc | ctcaactqct | gtcccagctg | tagaagctct | ctatcggagg | 1620 |
| 1 | 54 | attactactt | tgcaattttg | gaagactoct | qqaqaacaat | ccacggaggt | acccgaaggc | 1680 |
| 1 | 55 | cgatttgaag | cagtggaccc | accetatace | cttttcccat | ataaaataaa | ttactgagtc | 1740 |
| 1 | .56 | ttttttgtta | tcacatcqta | atggttttta | tttttattta | tttagagggt | cttttaggat | 1800 |
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RAW SEQUENCE LISTING DATE: 01/27/2002 PATENT APPLICATION: US/10/038,001 TIME: 15:36:32

Input Set : D:\008010179CPUS01.txt

Output Set: N:\CRF3\01272002\J038001.raw

| 157 | aaattctctg | aattgtacat | aaatagtcag | ccttaccaca | taattttggg | ctgtggctgc | 1860 |
|-----|------------|------------|------------|------------|------------|-------------|------|
| 158 | attttggagc | gcatagccga | ggcctgtgtg | ctcgacattg | gtgtgggtat | ttaaataagg | 1920 |
| 159 | gcgaattctg | cagatatcca | tcacactggc | ggccgctcga | gtctagaggg | cccgtttaaa | 1980 |
| 160 | cccgctgatc | agcctcgact | gtgccttcta | gttgccagcc | atctgttgtt | tgcccctccc | 2040 |
| 161 | ccgtgccttc | cttgaccctg | gaaggtgcca | ctcccactgt | cctttcctaa | taaaatgagg | 2100 |
| 162 | aaattgcatc | gcattgtctg | agtaggtgtc | attctattct | ggggggtggg | gtggggcagg | 2160 |
| 163 | acagcaaggg | ggaggattgg | gaagacaata | gcaggcatgc | tggggatgcg | gtgggctcta | 2220 |
| 164 | tggcttctga | ggcggaaaga | accagcatgt | gagcaaaagg | ccagcaaaag | gccaggaacc | 2280 |
| 165 | gtaaaaaggc | cgcgttgctg | gcgtttttcc | ataggctccg | ccccctgac | gagcatcaca | 2340 |
| 166 | aaaatcgacg | ctcaagtcag | aggtggcgaa | acccgacagg | actataaaga | taccaggcgt | 2400 |
| 167 | ttccccctgg | aagctccctc | gtgcgctctc | ctgttccgac | cctgccgctt | accggatacc | 2460 |
| 168 | tgtccgcctt | tctcccttcg | ggaagcgtgg | cgctttctca | tagctcacgc | tgtaggtatc | 2520 |
| 169 | tcagttcggt | gtaggtcgtt | cgctccaagc | tgggctgtgt | gcacgaaccc | cccgttcagc | 2580 |
| | | | | | caacccggta | | 2640 |
| | | | | | agcgaggtat | | 2700 |
| | | | | | tagaagaaca | | 2760 |
| 173 | tctgcgctct | gctgaagcca | gttaccttcg | gaaaaagagt | tggtagctct | tgatccggca | 2820 |
| | | | | | gcagcagatt | | 2880 |
| | | | | | gtctgacgct | | 2940 |
| | | | | | taaaaatagg | | 3000 |
| | | | | | cctctgacac | | 3060 |
| 178 | cggagacggt | cacagettgt | ctgtaagcgg | atgccgggag | cagacaagcc | cqtcaqqqcq | 3120 |
| | | | | | tgcggcatca | | 3180 |
| | | | | | atgcgtaagg | | 3240 |
| | | | | | ggtgtggtgg | | 3300 |
| | | | | | ttcgctttct | | 3360 |
| | | | | | cgggggctcc | | 3420 |
| | | | | | gattagggtg | | 3480 |
| | | | | | acgttggagt | | 3540 |
| | | | | | cctatctcgg | | 3600 |
| | | | | | aaaaatgagc | | 3660 |
| | | | | | atttccattc | | 3720 |
| | | | | | tggcccgcct | | 3780 |
| | | | | | tcccatagta | | 3840 |
| | | | | | aactgcccac | | 3900 |
| | | | | | caatgacggt | | 3960 |
| | | | | | tacttggcag | | 4020 |
| | | | | | gtacatcaat | | 4080 |
| | | | | | tgacgtcaat | | 4140 |
| | | | | | caactccgcc | | 4200 |
| | | | | | cagagetegt | | 4260 |
| | | | | | ccatagaaga | | 4320 |
| | | | | | | aattaatcat. | 4380 |
| | | | | | gaactaaacc | | 4440 |
| 201 | aaggagaaga | acttttcact | ggagttqtcc | caattettet | tgaattagat | ggtgatgtta | 4500 |
| 202 | atgggcacaa | attttctgtc | agtggagagg | gtgaaggtga | tgctacatac | ggaaagctta | 4560 |
| 203 | cccttaaatt | tatttgcact | actggaaaac | tacctgttcc | atggccaaca | cttqtcacta | 4620 |
| | | | | | tcatatgaaa | | 4680 |
| 205 | ttttcaagag | tgccatgccc | gaaggttatg | tacaggaacg | cactatatct | ttcaaagatg | 4740 |
| | | | | | | | |

RAW SEQUENCE LISTING

DATE: 01/27/2002 TIME: 15:36:32

Input Set : D:\008010179CPUS01.txt

PATENT APPLICATION: US/10/038,001

Output Set: N:\CRF3\01272002\J038001.raw

| 206 | acgggaacta caagacgcgt gctgaagtca agtttgaagg tgataccctt gttaatcgta | 4800 | | | | |
|-----|--|------|--|--|--|--|
| 207 | tcgagttaaa aggtattgat tttaaagaag atggaaacat tctcggacac aaactcgagt | 4860 | | | | |
| 208 | Bacaactataa ctcacacaat gtatacatca cggcagacaa acaaaagaat ggaatcaaag | 4920 | | | | |
| 209 | ctaacttcaa aattcgccac aacattgaag atggatccgt tcaactagca gaccattatc | 4980 | | | | |
| 210 | aacaaaatac tocaattggc gatggcootg toottttacc agacaaccat tacctgtoga | 5040 | | | | |
| 211 | cacaatotgo cotttogaaa gatoocaacg aaaagogtga coacatggto ottottgagt | 5100 | | | | |
| 212 | ttgtaactgc tgctgggatt acacatggca tggatgccaa gttgaccagt gccgttccgg | 5160 | | | | |
| 213 | tgctcaccgc gcgcgacgtc gccggagcgg tcgagttctg gaccgaccgg ctcgggttct | 5220 | | | | |
| 214 | cccgggactt cgtggaggac gacttcgccg gtgtggtccg ggacgacgtg accctgttca | 5280 | | | | |
| 215 | tcagcgcggt ccaggaccag gtggtgccgg acaacaccct ggcctgggtg tgggtgcgcg | 5340 | | | | |
| 216 | gcctggacga gctgtacgcc gagtggtcgg aggtcgtgtc cacgaacttc cgggacgcct | 5400 | | | | |
| 217 | cegggeegge catgacegag ateggegage ageegtgggg gegggagtte geeetgegeg | 5460 | | | | |
| 218 | acceggeegg caactgegtg cacttegtgg cegaggagea ggactgacac tegacetega | 5520 | | | | |
| 219 | aacttgttta ttgcagctta taatggttac aaataaagca atagcatcac aaatttcaca | 5580 | | | | |
| 220 | aataaagcat ttttttcact gcattctagt tgtggtttgt ccaaactcat caatgtatct | 5640 | | | | |
| | tatcatgtct | 5650 | | | | |
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| | <211> LENGTH: 25 | | | | | |
| 225 | <212> TYPE: DNA | | | | | |
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| 228 | <400> SEQUENCE: 3 | | | | | |
| 229 | 9 tttatttaaa tggagccaca gctgg | | | | | |
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| 232 | <211> LENGTH: 26 | | | | | |
| | 33 <212> TYPE: DNA | | | | | |
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| | 6 <400> SEQUENCE: 4 | | | | | |
| | 7 tttatttaat acccacacca atgtcg | | | | | |
| | 9 <210> SEQ ID NO: 5 | | | | | |
| | 0 <211> LENGTH: 26 | | | | | |
| | 1 <212> TYPE: DNA | | | | | |
| | <213> ORGANISM: Porcine circovirus | | | | | |
| | <400> SEQUENCE: 5 | | | | | |
| | accatgccaa gcaagaaaag cggccc | 26 | | | | |
| | 7 <210> SEQ ID NO: 6 | | | | | |
| | 8 <211> LENGTH: 23 | | | | | |
| | 9 <212> TYPE: DNA | | | | | |
| | 0 <213> ORGANISM: Porcine circovirus | | | | | |
| | <400> SEQUENCE: 6 | | | | | |
| 253 | ttttcactga cgctgccgag gtg | 23 | | | | |
| | 5 <210> SEQ ID NO: 7 | | | | | |
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| 258 | 8 <213> ORGANISM: Porcine circovirus | | | | | |
| | <400> SEQUENCE: 7 | | | | | |
| 261 | agatctaggc ctgtgtggtc gacattggtg tgggtattta aatggagcca cagctggttt | 60 | | | | |
| 262 | 2 cttttattat ttggctggaa ccaatcaatt gtttggtcca gctcaggttt gggggtgaag 12 | | | | | |
| 263 | 3 tacctggagt ggtaggtaaa gggctgcctt atggtgtggc gggaggagta gttaatatag 1 | | | | | |
| 264 | gggtcatagg ccaagttggt ggagggggtt acaaagttgg catccaagat aacagcagtg | 240 | | | | |
| | | | | | | |

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/038,001

DATE: 01/27/2002

TIME: 15:36:33

Input Set : D:\008010179CPUS01.txt
Output Set: N:\CRF3\01272002\J038001.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date